

12AL5
TWIN DIODE
 MINIATURE TYPE

12AL5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 12.6 ac or dc volts
 Current. 0.15 amp

Direct Interelectrode Capacitances:

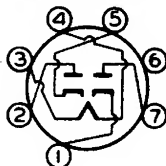
Plate No.1 to Cathode No.1, Heater,
 and Internal Shield* 3.2 . . μ f
 Plate No.2 to Cathode No.2, Heater,
 and Internal Shield[▲] 3.2 . . μ f
 Cathode No.1 to Plate No.1, Heater,
 and Internal Shield[★] 3.6 . . μ f
 Cathode No.2 to Plate No.2, Heater,
 and Internal Shield[●] 3.6 . . μ f
 Plate No.1 to Plate No.2[●] 0.026 max. μ f

- * With close-fitting external shield connected to Cathode No.1.
- ▲ With close-fitting external shield connected to Cathode No.2.
- ★ With close-fitting external shield connected to Plate No.1.
- With close-fitting external shield connected to Plate No.2.
- With close-fitting external shield connected to ground.

Mechanical:

Mounting Position. Any
 Maximum Overall Length 1-3/4"
 Maximum Seated Length. 1-1/2"
 Length, Base Seat to Bulb Top (excluding tip). 1-1/8" $\pm$ 3/32"
 Maximum Diameter 3/4"
 Bulb T-5-1/2
 Base Small-Button Miniature 7-Pin
 Basing Designation for BOTTOM VIEW 6BT

Pin 1 - Cathode,
 Diode No.1
 Pin 2 - Plate,
 Diode No.2
 Pin 3 - Heater
 Pin 4 - Heater



Pin 5 - Cathode,
 Diode No.2
 Pin 6 - Internal
 Shield
 Pin 7 - Plate,
 Diode No.1

RECTIFIER

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 330 max. volts
 PEAK PLATE CURRENT PER PLATE 54 max. ma.
 DC OUTPUT CURRENT PER PLATE. 9 max. ma.
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode 330 max. volts
 Heater positive with respect to cathode 330 max. volts

Typical Operation as Half-Wave Rectifier[□]:

RMS Plate Voltage per Plate 117 . . volts
 Min. Total Effective Plate-Supply
 Impedance per Plate 300 . . ohms
 DC Output Current per Plate 9 . . ma.

Curves shown under Type 6AL5 also apply to the 12AL5

[□] In half-wave service, the two units may be used separately or in parallel.

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TUBE DEPARTMENT
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA